

ABSTRACT OF THE DISCLOSURE

A method for tensioning incisions made in a target vessel during an anastomosis procedure is provided. After an incision is made in a target vessel, incision tensioners are placed within the incision in order to tension the incision. The incision is tensioned when the incision tensioners are pulled taut in order to stretch the incision to a predetermined length or a predetermined force. The tensioners allow for proper grafting of a graft vessel to the target vessel in an end to side anastomosis. In addition, the incision tensioners allow the incision to have a known geometry, thereby allowing precise grafting of the graft vessel to the target vessel during the anastomosis procedure. After the incision is tensioned, the graft vessel is grafted to the target vessel using clips, sutures, staples or other anastomosis devices. One example of anastomosis clips are configured to capture the graft vessel and the target vessel such that the graft vessel grafts with the target vessel.